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09/945,441	08/31/2001	Stephan Brunner	OIC0045US	3599
60975 7590 08/07/2007 CAMPBELL STEPHENSON LLP			EXAMINER	
· · · · · · · ·	RY OAKS TERRACE		HAQ, NAEEM U	
BLDG. H, SUITE 250 AUSTIN, TX 78758			ART UNIT	PAPER NUMBER
			3625	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
Office Action Summers	09/945,441	BRUNNER ET AL.				
Office Action Summary	Examiner	Art Unit				
	Naeem Haq	3625				
The MAILING DATE of this communicate Period for Reply	tion appears on the cover sheet v	with the correspondence address				
A SHORTENED STATUTORY PERIOD FOR WHICHEVER IS LONGER, FROM THE MAI - Extensions of time may be available under the provisions of after SIX (6) MONTHS from the mailing date of this commun If NO period for reply is specified above, the maximum statut - Failure to reply within the set or extended period for reply will Any reply received by the Office later than three months after earned patent term adjustment. See 37 CFR 1.704(b).	LING DATE OF THIS COMMUN 37 CFR 1.136(a). In no event, however, may a cation. ory period will apply and will expire SIX (6) MC , by statute, cause the application to become A	IICATION. The reply be timely filed ONTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed	on <u>21 May 2007</u> .	•				
	This action is non-final.					
3) Since this application is in condition for	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) Claim(s) 1-5 7-18 24-27 29 31 33-37 3	9 41-43 and 45-53 is/are nending	n in the application				
 4) Claim(s) 1-5,7-18,24-27,29,31,33-37,39,41-43 and 45-53 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-5,7-18,24-27,29,31,33-37,39,41-43 and 45-53 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 						
Application Papers						
9) The specification is objected to by the E 10) The drawing(s) filed on is/are: a Applicant may not request that any objected Replacement drawing sheet(s) including th 11) The oath or declaration is objected to b) ☐ accepted or b) ☐ objected to in to the drawing(s) be held in abeya e correction is required if the drawing	ance. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s)		•				
Attachment(s) 1) Notice of References Cited (PTO-892)	4) Interview	Summary (PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	-948) Paper No	Summary (PTO-413) (s)/Mail Date Informal Patent Application				
S. Patent and Trademark Office						

Art Unit: 3625

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on May 21, 2007 has been entered.

Claim Rejections - 35 USC § 101

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claims 1-5, 7-18, 24-27, 29, 31, 33-37, 39, 41-43, and 45-53 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

Referring to claims 1, 8, 15, 24, and 33: These claims fail to produce a "useful, concrete, and tangible result." (In re Alappat, 31 USPQ2d 1545, 1558 (Fed. Cir. 1994) and State Street v Signature Financial Group Inc., 47 USPQ2d 1596, 1601-02 (Fed Cir. 1998) and AT&T Corp. v. Excel Comm. Inc. 50 USPQ2d 1447, 1452 (Fed. Cir. 1999)). These claims merely recite receiving information and determining whether to perform an association. The examiner is unable ascertain what the "useful, concrete, and tangible" result is from these claims. Moreover, it appears that these claims perform an

association in the abstract only. For these reasons, these claims are deemed to be non-statutory.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-5, 7-18, 24-27, 29, 31, 33-37, 39, 42, 43, 46, 47, 49, 51, and 53 are rejected under 35 U.S.C. 103(a) as being unpatentable over Strevey et al. (US 6,035,305) ("Strevey") in view of Thalhammer-Reyero (US 5,980,096) ("Reyero").

Referring to claims 1, 42, and 43: Strevey teaches a computer-implemented method of customizing a product (col. 4, lines 33-36) comprising:

providing a set of one or more customizable product classes (col. 6, lines 62-67: "One actual embodiment of the invention employs the Visio® 4.0 computer program, by Visio Corporation, of Seattle, Wash., to provide the display workspace 412 and palette 414. The Visio® program provides a palette 414, referred to as a tool box, that includes a number of master shapes, such as boxes, diamonds, or arrows"; col. 7, lines 9-13: "The Visio 4.0 system utilizes an object-oriented paradigm. In such a paradigm, a particular shape drawn on the computer screen is a graphical object, having certain attributes that define the object. The master shapes represent classes of objects"; col. 7, lines 20-21: "In an object-oriented paradigm, a class is defined by its attributes.");

receiving a customizable class rule (col. 5, lines 61-67; col. 11, lines 31-49);

Art Unit: 3625

receiving a request to designate a customizable product class from the set of customizable product classes as a customizable product instance (<u>col. 7</u>, <u>lines 13-19</u>: "When an operator selects a master shape, or object class, and a corresponding location on the computer screen, an object corresponding to an instance of the selected class is created and displayed graphically on the computer screen. Generic attributes of the object, such as size and color, are initialized to default values and may be subsequently modified by an operator.");

receiving a request to associate a first component product (i.e. subclass) from a set of component products with the customizable product instance (col. 7, lines 21-32: "Objects, or instances, within the class include all class attributes. A subclass of a class may be defined, wherein the subclass "inherits" the attributes of the parent class. The inherited attribute values may be modified, or new attributes added to the subclass. An object of the subclass correspondingly obtains the attributes of the subclass. Through "multiple inheritance," an object may be created that is a member of more than one class. Such an object obtains the attributes of all of its parent classes. A hierarchy including classes, subclasses, and objects is useful to organize and understand the numerous objects in a complex system"; col. 10, lines 38-42: "The user interface 410 includes the pallet 414 containing the iconic representations of graphical objects that are selectable by an operator. The iconic representations include: an option icon 604; a dependent module icon 608; an independent module icon 610"; col. 7, lines 13-19: "When an operator selects a master shape, or object class, and a corresponding location on the computer screen, an object corresponding to an instance of the selected class is created and displayed graphically on the computer screen. Generic attributes of the object, such as size and color, are initialized to default values and may be subsequently modified by an operator.") The Applicants' specification discloses that "component products" are subclasses that inherit attributes from the customizable product class (see paragraph [0025]). Strevey provides the same teaching as noted above.

Art Unit: 3625

Strevey also teaches determining whether to associate the first component product (i.e. subclass) with the customizable product instance based on the customizable class rule (Abstract, lines 15-19: "Upon selection of the objects, an operator is prompted to input specific information pertaining to the selected object. Constraints limit the selections that an operator can make, the appearance of the objects, and the configurations that can be produced from selected objects"; col. 2, lines 52-59: "The graphical objects include a graphical option object, which represents information pertaining to a selection that may be made by a user when configuring the product. The graphical objects also include graphical logical relationship objects, specifically a conjunctive relationship object and a disjunctive relationship object, which are used to represent information necessary in configuring a product"; col. 2, line 65 - col. 3, line 3: "In accordance with further aspects of this invention, the pallet includes a graphical contingent relationship object representing a contingent relationship between graphical option objects or module objects. A contingent relationship indicates that the selection of one of the related objects is required for the selection of the second object"; col. 3. lines 8-10: "In accordance with other further aspects of this invention, the pallet includes a graphical constraint object representing a constraint relationship between two graphical objects" col. 5, lines 3-6: "The rules-based program also configures a product by determining the modules required to be included in the product, based on the set of product options selected"; col. 5, lines 61-67: "At step. 54, the computer receives option-to-option relationship information. Option-to-option relationship information describes relationships between product options. For example, the selection of one product option may require the selection of a second product option. Alternatively, the selection of one product option may preclude the selection of a second product option"; col. 9, lines 1-10: "The modules 514. represent sets, or packages, of parts, plans, tools, functional tests, inspections, or software that are to be included in the product or used to assemble the product when one or more associated options are selected. The class of modules 514 has two subclasses: a class of dependent modules 530 and a class of independent modules 532. Dependent modules 530 include modules that have a relationship with two

Art Unit: 3625

or more options, such that when the two or more options are selected, the use of an associated dependent module is required"). The Applicants' specification discloses that the step of determining whether to associate a component product with a customizable product instance based on customizable class rule allows for restricting or excluding one or more component products based on the selection of a specific component in order to guide the consumer to choose the appropriate products (paragraph [0028], lines 5-8; paragraph [0061], lines 1-8). Strevey provides the same teaching as noted above.

Strevey does not teach that the customizable class rule is received in a *natural language template*. However, Reyero discloses a computer-based system, method, and graphical interface for modeling and simulation of complex systems (Abstract, lines 1-5; col. 4, lines 59-62). Reyero further discloses that the invention uses natural language templates to define relations and behaviors (i.e. rules) of classes of items (col. 7, lines 44-55; col. 10, lines 14-21). The examiner notes that the nexus between Strevey and Reyero is that both make use of object-oriented paradigm to model highly complex systems by connecting graphical objects (Reyero: col. 15, lines 12-16). These objects are presented in a palette to the user from which the user can construct complex structures (Reyero: col. 11, line 64 – col. 12, line 19; Figures 13-19). The objects contain attributes that define configuration information and characteristics of the objects (Reyero: col. 6, lines 35-39; col. 15, lines 56-65; Strevey: col. 7, lines 9-32). Therefore it would have been obvious to one of ordinary skill in the art, at the time the invention was made, to incorporate the teaching of Reyero into the invention of Strevey.

Art Unit: 3625

One of ordinary skill in the art would have been motivated to do so in order to provide the user with a more natural way of working with a software application.

Referring to claim 2: Strevey teaches all the limitations of claim 1 as noted above. Furthermore, Strevey teaches determining not to associate the first component product with the customizable product instance if the customizable class rule limits association of the first component product with the customizable product instance (col. 9, lines 38-45: "The disjunctive relationship 548 represents an exclusive OR relationship between two components, where a component is graphical product object 508 or a group box 542 containing two or more graphical product objects. A selection of one component that is connected by a disjunctive relationship precludes the selection of all other components connected to the selected component by a disjunctive relationship.") The Applicants' specification discloses that customizable class rules "...may be defined to require or exclude the selection of one or more component products upon selection of a specific component product..." (paragraph [0061], lines 5-7). Strevey provides the same teaching using disjunctive relationships.

Referring to claims 3 and 4: Strevey teaches all the limitations of claim 1 as noted above. Furthermore, Strevey teaches determining to associate the first or second component product with the customizable product instance if the customizable class rule allows association of the first or second component product with the customizable product instance; and associating the first component product with the customizable product instance (col. 9, lines 46-53: "Conjunctive relationships 546 define a conjunctive, or "AND" relationship between two components, where a component is graphical product object 508 or a group box 542 containing two or more graphical product objects. A selection of one component that is connected by

Art Unit: 3625

a conjunctive relationship requires the selection of all other components connected to the selected component by a conjunctive relationship.").

Referring to claim 5: Strevey teaches all the limitations of claim 1 as noted above. Furthermore, Strevey teaches providing a user interface for each component product (Figure 6). Strevey does not explicitly disclose a theme UI, control UI, or group UI. However, the Examiner notes that these limitations are not functionally involved in the steps of the recited method. Therefore these limitations are deemed to be nonfunctional descriptive material. The steps of receiving, designating, providing, and determining would be performed the same regardless of what user interface (UI) was provided. The differences between the content of the Applicants' invention and the prior art are merely subjective. Thus this nonfunctional descriptive material will not distinguish the claimed invention from the prior art in terms of patentability, see In re Gulack, 703 F.2d 1381, 1385, 217 USPQ 401, 404 (Fed. Cir. 1983); In re Lowry, 32 F.3d 1579, 32 USPQ2d 1031 (Fed. Cir. 1994) also see MPEP 2106. Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to use any user interface in the invention of Strevey because such information does not functionally relate to the steps of the claimed method and because the subjective interpretation of information does not patentably distinguish the claimed invention.

Referring to claim 7: Strevey teaches all the limitations of claim 1 as noted above. Furthermore, Strevey teaches wherein two or more component products (i.e. subclasses) from the set of component products are associated with the customizable

Art Unit: 3625

product instance (Figure 7E). Strevey discloses that two "Options" (items "794" and "796") are associated with the customizable product instance (i.e. Pratt & Whitney Hydraulic Pump, item "792") through a conjunctive relationship (item "797"). Furthermore, Strevey teaches that an "Option" (Figure 5A, item "510") is a subclass of a "Graphical Object" (Figure 5A, item "504"), (col. 8, lines 24-40).

Referring to claim 8: Claim 8 is rejected under the same rationale as set forth above in claim 1.

Referring to claim 9: Claim 9 is rejected under the same rationale as set forth above in claim 2.

Referring to claims 10 and 11: Claims 10 and 11 are rejected under the same rationale as set forth above in claim 3 and 4.

Referring to claim 12: Strevey teaches providing a user interface for each component product (Figure 6).

Referring to claims 13 and 37: Claims 13 and 37 are rejected under the same rationale as set forth above in claim 5.

Referring to claim 14: Claim 14 is rejected under the same rationale as set forth above in claim 7.

Referring to claims 15 and 17: Strevey teaches a computer-implemented method of customizing a product (col. 4, lines 33-36) comprising:

designating a customizable product class from a set of customizable product classes as a customizable product instance (col. 7, lines 13-19: "When an operator selects a master shape, or object class, and a corresponding location on the computer screen, an object corresponding to an instance of the selected class is created and displayed graphically on the computer

Art Unit: 3625

screen. Generic attributes of the object, such as size and color, are initialized to default values and may be subsequently modified by an operator.");

selecting a first component product (i.e. subclass) from a set of component products to form a customizable product, and

associating the first component product with the customizable product instance based on a customizable class rule among the set of customizable class rules, that applies to the customizable product instance. Strevey discloses that two "Options" (items "794" and "796") are associated with the customizable product instance (i.e. Pratt & Whitney Hydraulic Pump, item "792") through a conjunctive relationship (item "797"). Furthermore, Strevey teaches that an "Option" (Figure 5A, item "510") is a subclass of a "Graphical Object" (Figure 5A, item "504"), (col. 8, lines 24-40).

Referring to claim 16: Strevey teaches all the limitations of claim 15 as noted above. Furthermore, Strevey teaches selecting a second component product to add to the customizable product, wherein the selecting is based on the first component product and at least one of the customizable class rules (Figure 7D).

Referring to claim 18: Strevey teaches all the limitations of claim 15 as noted above. Furthermore, Strevey teaches automatically associating a second component product with the customizable product instance upon selecting based on at least one of the customizable class rules (col. 9, lines 46-53: "Conjunctive relationships 546 define a conjunctive, or "AND" relationship between two components, where a component is graphical product object 508 or a group box 542 containing two or more graphical product objects. A selection of one component that is connected by a conjunctive relationship requires the selection of all other components connected to the selected component by a conjunctive relationship.")

Referring to claim 24: Claim 24 is rejected under the same rationale as set forth above in claim 15.

Referring to claim 25: Claim 24 is rejected under the same rationale as set forth above in claim 16.

Referring to claim 26. Claim 8 is rejected under the same rationale as set forth above in claim 17.

Referring to claim 27: Claim 27 is rejected under the same rationale as set forth above in claim 18.

Referring to claim 29: Strevey teaches all the limitations of claim 18 as noted above. Strevey does not explicitly disclose pricing information or discount pricing. However, the Examiner notes that these limitations are not functionally involved in the steps of the recited method. Therefore these limitations are deemed to be nonfunctional descriptive material. The steps of receiving, designating, providing, and determining would be performed the same regardless of what information was provided. The differences between the content of the Applicants' invention and the prior art are merely subjective. Thus this nonfunctional descriptive material will not distinguish the claimed invention from the prior art in terms of patentability, see *In re Gulack, 703 F.2d 1381, 1385, 217 USPQ 401, 404 (Fed. Cir. 1983); In re Lowry, 32 F.3d 1579, 32 USPQ2d 1031 (Fed. Cir. 1994)* also see MPEP 2106. Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to display any information in the invention of Strevey because such information does not

Art Unit: 3625

functionally relate to the steps of the claimed method and because the subjective interpretation of information does not patentably distinguish the claimed invention.

Referring to claim 31: Strevey teaches that the customizable product rule comprises component product information to guide a consumer in a selection of the customizable product, and the component product is displayed in a user interface (col. 13, lines 15-34).

Referring to claim 33: Claim 33 is rejected under the same rationale as set forth above in claim 1.

Referring to claim 34: Claim 8 is rejected under the same rationale as set forth above in claim 2.

Referring to claim 35: Claim 8 is rejected under the same rationale as set forth above in claim 3.

Referring to claim 36: Claim 36 is rejected under the same rationale as set forth above in claim 4.

Referring to claim 39: Claim 39 is rejected under the same rationale as set forth above in claim 7.

Referring to claims 46, 47, 49, 51, and 53: Claims 46, 47, 49, 51, and 53 are rejected under the same rationale as set forth above in claim 42 and 43.

Claims 40, 41, 44, 45, 48, 50, and 52 are rejected under 35 U.S.C. 103(a) as being unpatentable over Strevey et al. (US 6,035,305) ("Strevey") in view of Thalhammer-Reyero (US 5,980,096) ("Reyero") and further in view of Skeirik et al. (US 4,884,217) ("Skeirik").

Referring to claims 40 and 41: Strevey teaches all the limitations of claim 1 as noted above. Strevey does not teach the customizable class rule is received in a natural language format, or that customizable class rule is converted from the natural language format into a low-level computer language. However, Skeirik teaches an expert system with classes of rules wherein in the user input is in a natural language format and the format is then converted into a low-level computer language (col. 11, lines 19-34). Therefore it would have been obvious to one of ordinary skill in the art, at the time the invention was made, to incorporate the teachings of Skeirik into the invention of Strevey. One of ordinary skill in the art would have been motivated to do so in order to facilitate the use in the system of data from a wide variety of systems, as taught by Skeirik.

Referring to claims 44, 45, 48, 50, and 52: Claims 44, 45, 48, 50, and 52 are rejected under the same rationale as set forth above in claims 40 and 41.

Response to Arguments

Applicants' arguments have been fully considered but they are not persuasive. The Applicants have argued that the examiner did not treat the limitation "customizable class rule" clearly in the previous Office Action (see Remarks pages 13 and 14). The examiner respectfully disagrees. The Applicants' specification states, "...the customizable rule may be designed by configuration experts, defining conditions and triggering actions between the component products that ensure the consumers purchase the optimal solution that meets their needs." (paragraph [0025]). The Applicants' specification goes on

to teach that "The customizable class rules define constraints on component products. It is through the customizable class rules that the configuration expert helps guide the consumer to choose the appropriate product(s) for their needs. Here, the customizable class rules may be defined to require or exclude the selection of one or more component products upon the selection of a specific component product, or the customizable class rule may trigger the prompting of recommendations messages when a particular component product is selected. For example, a customizable class rule may be created that requires a specific monitor card when a specific type of monitor is selected during the runtime session by a consumer." (paragraph [0061]). Strevey provides the same teachings (col. 5, lines 61-67).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Naeem Haq whose telephone number is (571)-272-6758. The examiner can normally be reached on M-F 8:00am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jeffrey A. Smith can be reached on (571)-272-6763. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

NAEEM HAQ PRIMARY EXAMINER

August 3, 2007